

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 09/115,589E

CRF Edit Date: 4/1/05  
Edited by: AW

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted:    invalid beginning/end-of-file text ;    page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



IFW16

## RAW SEQUENCE LISTING

DATE: 04/01/2005

PATENT APPLICATION: US/09/115,589E

TIME: 17:12:37

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\04012005\I115589E.raw

```

3 <110> APPLICANT: Van Eyk, Jennifer E.
4     Iscoe, Steven D
5     Simpson, Jeremy A
7 <120> TITLE OF INVENTION: Methods of Diagnosing Muscle Damage
9 <130> FILE REFERENCE: 1997-023-02US
11 <140> CURRENT APPLICATION NUMBER: 09/115,589E
12 <141> CURRENT FILING DATE: 1998-07-15
14 <150> PRIOR APPLICATION NUMBER: 60/052,697
15 <151> PRIOR FILING DATE: 1997-07-16
17 <160> NUMBER OF SEQ ID NOS: 50
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 12
23 <212> TYPE: PRT
24 <213> ORGANISM: Unknown
26 <220> FEATURE:
27 <221> NAME/KEY: PEPTIDE
28 <222> LOCATION: (1)..(12)
29 <223> OTHER INFORMATION: Myosin light chain 1
31 <220> FEATURE:
32 <221> NAME/KEY: PEPTIDE
33 <222> LOCATION: (1)
34 <223> OTHER INFORMATION: May be any amino acid.
36 <220> FEATURE:
37 <221> NAME/KEY: PEPTIDE
38 <222> LOCATION: (2)
39 <223> OTHER INFORMATION: May be any amino acid.
41 <220> FEATURE:
42 <221> NAME/KEY: PEPTIDE
43 <222> LOCATION: (7)
44 <223> OTHER INFORMATION: May be either Pro or Ala.
46 <400> SEQUENCE: 1
W--> 47 Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
48     1             5             10
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 12
53 <212> TYPE: PRT
54 <213> ORGANISM: Unknown
56 <220> FEATURE:
57 <221> NAME/KEY: PEPTIDE
58 <222> LOCATION: (1)..(12)
59 <223> OTHER INFORMATION: Myosin light chain 1
61 <220> FEATURE:

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62 <221> NAME/KEY: PEPTIDE
63 <222> LOCATION: (1)
64 <223> OTHER INFORMATION: May be any amino acid.
66 <400> SEQUENCE: 2
W--> 67 Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro
68      1          5          10
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 11
73 <212> TYPE: PRT
74 <213> ORGANISM: Unknown
76 <220> FEATURE:
77 <221> NAME/KEY: PEPTIDE
78 <222> LOCATION: (1)..(11)
79 <223> OTHER INFORMATION: malate dehydrogenase
81 <220> FEATURE:
82 <221> NAME/KEY: PEPTIDE
83 <222> LOCATION: (1)
84 <223> OTHER INFORMATION: May be any amino acid.
86 <220> FEATURE:
87 <221> NAME/KEY: PEPTIDE
88 <222> LOCATION: (8)
89 <223> OTHER INFORMATION: May be any amino acid.
91 <400> SEQUENCE: 3
W--> 92 Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile
93      1          5          10
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 13
98 <212> TYPE: PRT
99 <213> ORGANISM: Unknown
101 <220> FEATURE:
102 <221> NAME/KEY: PEPTIDE
103 <222> LOCATION: (1)..(13)
104 <223> OTHER INFORMATION: ATP g synthase chain
106 <220> FEATURE:
107 <221> NAME/KEY: PEPTIDE
108 <222> LOCATION: (1)
109 <223> OTHER INFORMATION: May be any amino acid.
111 <220> FEATURE:
112 <221> NAME/KEY: PEPTIDE
113 <222> LOCATION: (2)
114 <223> OTHER INFORMATION: May be any amino acid.
116 <400> SEQUENCE: 4
W--> 117 Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
118      1          5          10
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 10
123 <212> TYPE: PRT
124 <213> ORGANISM: Unknown
126 <220> FEATURE:

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127 <221> NAME/KEY: PEPTIDE
128 <222> LOCATION: (1)..(10)
129 <223> OTHER INFORMATION: ATP synthase oligomycin conferring protein
131 <220> FEATURE:
132 <221> NAME/KEY: PEPTIDE
133 <222> LOCATION: (1)
134 <223> OTHER INFORMATION: May be any amino acid.
136 <220> FEATURE:
137 <221> NAME/KEY: PEPTIDE
138 <222> LOCATION: (2)
139 <223> OTHER INFORMATION: May be any amino acid.
141 <400> SEQUENCE: 5
W--> 142 Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
      143 1 5 10
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 10
148 <212> TYPE: PRT
149 <213> ORGANISM: Unknown
151 <220> FEATURE:
152 <221> NAME/KEY: PEPTIDE
153 <222> LOCATION: (1)..(10)
154 <223> OTHER INFORMATION: serum albumin
156 <220> FEATURE:
157 <221> NAME/KEY: PEPTIDE
158 <222> LOCATION: (1)
159 <223> OTHER INFORMATION: May be any amino acid.
161 <400> SEQUENCE: 6
W--> 162 Xaa Ala His Lys Ser Glu Ile Ala His Arg
      163 1 5 10
166 <210> SEQ ID NO: 7
167 <211> LENGTH: 11
168 <212> TYPE: PRT
169 <213> ORGANISM: Unknown
171 <220> FEATURE:
172 <221> NAME/KEY: PEPTIDE
173 <222> LOCATION: (1)..(11)
174 <223> OTHER INFORMATION: triose phosphate isomerase
176 <220> FEATURE:
177 <221> NAME/KEY: PEPTIDE
178 <222> LOCATION: (1)
179 <223> OTHER INFORMATION: May be any amino acid.
181 <220> FEATURE:
182 <221> NAME/KEY: PEPTIDE
183 <222> LOCATION: (4)
184 <223> OTHER INFORMATION: May be Arg or Leu.
186 <400> SEQUENCE: 7
W--> 187 Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn
      188 1 5 10
191 <210> SEQ ID NO: 8

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## RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.TXT

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192 <211> LENGTH: 209
193 <212> TYPE: PRT
194 <213> ORGANISM: Unknown
196 <220> FEATURE:
197 <221> NAME/KEY: PEPTIDE
198 <222> LOCATION: (1)..(209)
199 <223> OTHER INFORMATION: Human cardiac troponin I
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Swiss prot identification number P19429
204 <300> PUBLICATION INFORMATION:
205 <303> JOURNAL: FEBS Lett.
206 <304> VOLUME: 270
207 <305> ISSUE: 1-2
208 <306> PAGES: 57-61
209 <307> DATE: 1990-09-17
211 <400> SEQUENCE: 8
212 Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
213   1           5           10           15
215 Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
216           20           25           30
218 His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
219           35           40           45
221 Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
222           50           55           60
224 Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
225           65           70           75           80
227 Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
228           85           90           95
230 Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
231           100          105          110
233 Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
234           115          120          125
236 Gln Lys Lys Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
237           130          135          140
239 Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
240          145          150          155          160
242 Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
243           165          170          175
245 Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
246           180          185          190
248 Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
249           195          200          205
251 Ser
255 <210> SEQ ID NO: 9
256 <211> LENGTH: 186
257 <212> TYPE: PRT
258 <213> ORGANISM: Unknown
260 <220> FEATURE:
261 <221> NAME/KEY: PEPTIDE

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TIME: 17:12:37

Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\04012005\I115589E.raw

262 <222> LOCATION: (1)..(186)  
 263 <223> OTHER INFORMATION: Human slow skeletal troponin I  
 265 <220> FEATURE:  
 266 <223> OTHER INFORMATION: Swiss prot identification number P19237  
 268 <300> PUBLICATION INFORMATION:  
 269 <303> JOURNAL: Genomics  
 270 <304> VOLUME: 7  
 271 <305> ISSUE: 3  
 272 <306> PAGES: 346-357  
 273 <307> DATE: Jul-1990  
 275 <400> SEQUENCE: 9  
 276 Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu  
 277 1 5 10 15  
 279 Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu  
 280 20 25 30  
 282 His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile  
 283 35 40 45  
 285 Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu  
 286 50 55 60  
 288 Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr  
 289 65 70 75 80  
 291 Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu  
 292 85 90 95  
 294 Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu  
 295 100 105 110  
 297 Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly  
 298 115 120 125  
 300 Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val  
 301 130 135 140  
 303 Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp  
 304 145 150 155 160  
 306 Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met  
 307 165 170 175  
 309 Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln  
 310 180 185  
 313 <210> SEQ ID NO: 10  
 314 <211> LENGTH: 181  
 315 <212> TYPE: PRT  
 316 <213> ORGANISM: Unknown  
 318 <220> FEATURE:  
 319 <221> NAME/KEY: PEPTIDE  
 320 <222> LOCATION: (1)..(181)  
 321 <223> OTHER INFORMATION: Human fast skeletal troponin I  
 323 <220> FEATURE:  
 324 <223> OTHER INFORMATION: Swiss prot identification number P48788  
 326 <300> PUBLICATION INFORMATION:  
 327 <303> JOURNAL: Biochim. Biophys. Acta  
 328 <304> VOLUME: 1217  
 329 <306> PAGES: 338-340

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/115,589E

DATE: 04/01/2005  
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Input Set : A:\PTO.AMC.TXT  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1, 2, 7  
Seq#:2; Xaa Pos. 1  
Seq#:3; Xaa Pos. 1, 8  
Seq#:4; Xaa Pos. 1, 2  
Seq#:5; Xaa Pos. 1, 2  
Seq#:6; Xaa Pos. 1  
Seq#:7; Xaa Pos. 1, 4

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:36; Line(s) 1562

**VERIFICATION SUMMARY**

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Input Set : A:\PTO.AMC.TXT

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L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0